

Abstract of the Disclosure

5

An improved tube probe for measuring volatile compounds in a liquid or gas contained in a reactor or in any other environment is disclosed. The probe is made of a single piece of metal, to one end of which is attached a gas permeable tubing, threaded on a supporting plate. The plate permits to use of

10

a variety of tube lengths and diameters while protecting the tube from mechanical stress due to agitation and aeration. Furthermore, the plate gives the possibility to have a longer permeable tube than the single loop probe approach. The probe is designed so that when in use, substantially only the tube is located inside the reactor. The volatile compounds permeate into the

15

tube into the carrier gas and the carrier gas + volatiles mixture is carried to a detector through a channel provided in the probe body. The probe is economical to make and to maintain, while achieving high performance.